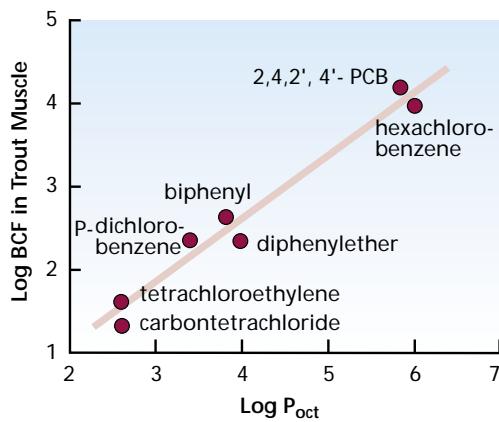
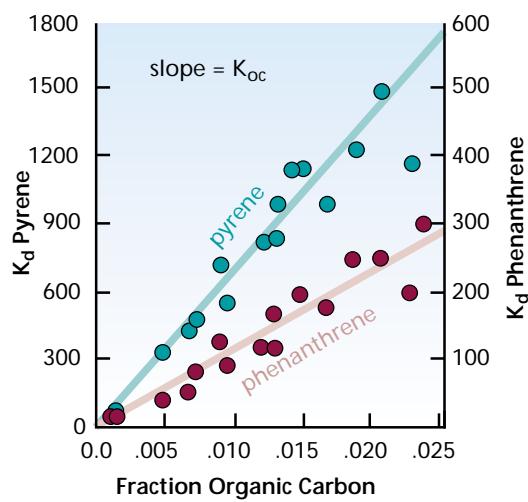


**Figure 2.24: Relationship between octanol/H<sub>2</sub>O partition coefficient and aqueous solubility.**  
The relative solubility in water is a substance's "Water Partition Coefficient."



**Figure 2.25: Relationship between octanol/water partition ( $P_{oct}$ ) coefficient and bioaccumulation factor (BCF) in trout muscle.** Water quality can be inferred by the accumulation of contaminants in fish tissue.



**Figure 2.26: Relationship between pyrene, phenanthrene, and fraction organic carbon.** Contaminant concentrations in sediment vs. water ( $K_d$ ) are related to the amount of organic carbon available.